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This listing of claims will replace all previous versions, and listings, of claims in the application:

## Listing of Claims:

- 1-43. (canceled)
- 44. (Previously presented) A medium for culturing CHO cells comprising mannose, fructose, galactose, and N-acetylmannosamine, wherein the use of the medium can increase the sialic acid content of a protein produced by the CHO cells.
- 45 (Previously presented) The medium of claim 44, wherein the medium is serum free.
- 46. (Previously presented) The medium of claim 44, wherein the medium is for culturing CHO cells during a production phase.
- 47. (Previously presented) The medium of claim 44, wherein the concentrations of galactose, mannose, and fructose are each from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine is at least about 0.8 mM.
- 48. (Previously presented) The medium of claim 44, wherein the concentrations of galactose, mannose, and fructose are each from about 1.5 mM to about 4.5 mM.
- 49. (Previously presented) A method for increasing the sialic acid content of a protein produced by CHO cells comprising culturing the CHO cells a medium comprising mannose, galactose, fructose, and N-acetylmannosamine, wherein culturing the CHO cells in the medium can increase the sialylation of a protein produced by the CHO cells.
- 50. (Previously presented) The method of claim 49, wherein the medium is serum free.
- 51. (*Previously presented*) The method of claim 49, wherein the CHO cells are cultured in the medium during a production phase.
- 52. (Previously presented) The method of claim 49, wherein the concentrations of galactose, mannose, and fructose in the medium are each from about

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1 mM to about 10 mM and the concentration of N-acetylmannosamine in the medium is at least about 0.8 mM.

- 53. (Previously presented) The method of claim 49, wherein the concentrations of galactose, mannose, and fructose in the medium are each from about 1.5 mM to about 4.5 mM.
- 54. (*Previously presented*) The method of claim 49, wherein the protein is a secreted, recombinant protein.
- 55. (Previously presented) The method of claim 49, wherein the CHO cells are cultured at a temperature from about 29°C to about 36°C.
- 56. (Previously presented) A medium for culturing CHO cells comprising galactose and N-acetylmannosamine, wherein the use of the medium can increase the sialic acid content of a protein produced by the CHO cells.
- 57. (*Previously presented*) The medium of claim 56, wherein the medium is serum free.
- 58. (*Previously presented*) The medium of claim 56, wherein the medium is for culturing CHO cells during a production phase.
- 59. (Previously presented) The medium of claim 56, wherein the concentration of galactose, is from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine is at least about 0.8 mM.
- 60. (Previously presented) The medium of claim 56, wherein the concentration of galactose is from about 1.5 mM to about 4.5 mM.
- 61. (Previously presented) A method for increasing the sialic acid content of a protein produced by CHO cells comprising culturing the CHO cells a medium comprising galactose and N-acetylmannosamine, wherein culturing the CHO cells in the medium can increase the sialylation of a protein produced by the CHO cells.
- 62. (Previously presented) The method of claim 61, wherein the medium is serum free.
- 63. (Previously presented) The method of claim 61, wherein the CHO cells are cultured in the medium during a production phase.

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- 64. (Previously presented) The method of claim 61, wherein the concentration of galactose in the medium, is from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine in the medium is at least about 0.8 mM.
- 65. (Previously presented) The method of claim 61, wherein the concentration of galactose in the medium, is from about 1.5 mM to about 4.5 mM.
- 66. (*Previously presented*) The method of claim 61, wherein the protein is a secreted, recombinant protein.
- 67. (Previously presented) The method of claim 61, wherein the CHO cells are cultured at a temperature from about 29°C to about 36°C.

## 68-91. (Cancelled)

- 92. (*Previously presented*) A medium for culturing CHO cells comprising mannose, fructose, and galactose, wherein the use of the medium can increase the sialic acid content of a protein produced by the CHO cells.
- 93. (Previously presented) The medium of claim 92, wherein the medium is serum free.
- 94. (*Previously presented*) The medium of claim 92, wherein the medium is for culturing the CHO cells during a production phase.
- 95. (Previously presented) The medium of claim 92, wherein the concentrations of galactose, mannose, and fructose are each from about 1 mM to about 10 mM.
- 96. (*Previously presented*) The medium of claim 92, wherein the concentrations of galactose, mannose, and fructose are each from about 1.5 mM to about 4.5 mM.
- 97. (Previously presented) A method for increasing the sialic acid content of a protein produced by CHO cells comprising culturing the CHO cells a medium comprising mannose, fructose, and galactose, wherein culturing the CHO cells in the medium can increase the sialylation of a protein produced by the CHO cells.
- 98. (Previously presented) The method of claim 97, wherein the medium is serum free.
- 99. (Previously presented) The method of claim 97, wherein the CHO cells are cultured in the medium during a production phase.

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- 100. (Previously presented) The method of claim 97, wherein the concentrations of galactose, mannose, and fructose in the medium are each from about 1 mM to about 10 mM.
- 101. (Previously presented) The method of claim 100, wherein the concentrations of galactose, mannose, and fructose in the medium are each from about 1.5 mM to about 4.5 mM.
- 102. (Previously presented) The method of claim 97, wherein the protein is a secreted, recombinant protein.
- 103. (Previously presented) The method of claim 97, wherein the CHO cells are cultured at a temperature from about 29°C to about 36°C.
- 104. (*Previously presented*) A medium for culturing CHO cells comprising fructose and galactose, wherein the use of the medium can increase the sialic acid content of a protein produced by the CHO cells.
- 105. (Previously presented) The medium of claim 104, wherein the medium is serum free.
- 106. (Previously presented) The medium of claim 104, wherein the medium is for culturing the CHO cells during a production phase.
- 107. (Previously presented) The medium of claim 104, wherein the concentrations of galactose and fructose are each from about 1 mM to about 10mM.
- 108. (Previously presented) The medium of claim 107, wherein the concentrations of galactose and fructose are each from about 1.5 mM to about 4.5 mM.
- 109. (Previously presented) A method for increasing the sialic acid content of a protein produced by CHO cells comprising culturing the CHO cells a medium comprising fructose and galactose, wherein culturing the CHO cells in the medium can increase the sialylation of a protein produced by the CHO cells.
- 110. (Previously presented) The method of claim 109, wherein the medium is serum free.
- 111. (Previously presented) The method of claim 109, wherein the CHO cells are cultured in the medium during a production phase.

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- 112. (Previously presented) The method of claim 109, wherein the concentrations of galactose and fructose in the medium are each from about 1 mM to about 10 mM.
- 113. (Previously presented) The method of claim 112, wherein the concentrations of galactose and fructose in the medium are each from about 1.5 mM to about 4.5 mM.
- 114. (Previously presented) The method of claim 109, wherein the protein is a secreted, recombinant protein.
- 115. (Previously presented) The method of claim 109, wherein the CHO cells are cultured at a temperature from about 29°C to about 36°C.